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Адрес

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Образование

2008– 2008	Россия, Москва	Московский государственный университет им. М.В. Ломоносова, кафедра биоинженерии биологического факультета	Защита кандидатской диссертации по биологическим наукам (специальность 03.00.02 Биофизика)
2005– 2008	Россия, Долгопрудный	Московский Физико-Технический Институт (Государственный Университет) (МФТИ)	Аспирант.
2002– 2005	Россия, Москва	Институт Биоорганической химии имени академиков М.М. Шемякина и Ю.А. Овчинникова РАН, Учебно Научный Центр.	
1999– 2005	Россия, Долгопрудный	Московский Физико-Технический Институт (Государственный Университет) (МФТИ)	Бакалавр. Магистр.

Работа

2020–наст.вр.	Россия, Долгопрудный	МФТИ	доцент
2002–наст.вр.	Россия, Москва	ИБХ РАН	инж.-иссл. / мнс / нс /снс
2008–2018	Россия, Москва	МГУ им М.В. Ломоносова	научный сотрудник

Работа в ИБХ

2018–наст.вр.	Старший научный сотрудник
2008–2018	Научный сотрудник
2002–2008	Младший научный сотрудник

Владение языками

русский, английский

Научные интересы

Структурная биология, молекулярная биология, биофизика, биохимия, эволюция (биология), эволюция (физика).

Членство в сообществах

FEBS

Степени и звания

Ссылки и контакты

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Гранты и проекты

-
- 2022– [Структурные основы функционирования нейротрофиновых рецепторов](#)
наст.вр.
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- 2020– [Исследование структурных основ взаимодействия мембранных белков P75 и SORCS2 в](#)
2022 [процессе внутриклеточной сигнализации](#)
-
- 2018– [Разработка новых молекулярных инструментов ферментативного и флуорогенного](#)
2023 [флуоресцентного мечения для прижизненной визуализации в живых системах](#)
-
- 2019– [Структурная биология мембранных белков для создания новых лекарственных и](#)
2022 [диагностических средств](#)
-
- 2020– [Изучение роли внеклеточного примембранного региона и трансмембранного домена](#)
2022 [рецептора нейротрофинов TrkA в процессе передачи сигнала через мембрану](#)
-
- 2020– [Исследование структурных основ внутриклеточной сигнализации Толл-подобных рецепторов](#)
2021 [методами спектроскопии ЯМР в растворе](#)
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- 2014– [Структурные основы молекулярных механизмов передачи сигнала интегральными](#)
2018 [мембранными белками I типа](#)
-

Публикации

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2. Baleeva NS, Bogdanova YA, Goncharuk MV, Sokolov AI, Myasnyanko IN, Kublitski VS, Smirnov AY, Gilvanov AR, **Goncharuk SA**, Mineev KS, Baranov MS (2024). A Combination of Library Screening and Rational Mutagenesis Expands the Available Color Palette of the Smallest Fluorogen-Activating Protein Tag nanoFAST. *Int J Mol Sci* 25 (5), , [10.3390/ijms25053054](https://doi.org/10.3390/ijms25053054)
3. Goncharuk MV, Vasileva EV, Ananiev EA, Gorokhovatsky AY, Bocharov EV, Mineev KS, **Goncharuk SA** (2023). Facade-Based Bicelles as a New Tool for Production of Active Membrane Proteins in a Cell-Free System. *Int J Mol Sci* 24 (19), , [10.3390/ijms241914864](https://doi.org/10.3390/ijms241914864)
4. Moliner R, Giryh M, Brunello CA, Kovaleva V, Biojone C, Enkavi G, Antenucci L, Kot EF, **Goncharuk SA**, Kaurinkoski K, Kuutti M, Fred SM, Elsilä LV, Sakson S, Cannarozzo C, Diniz CRAF, Seiffert N, Rubiolo A, Haapaniemi H, Meshi E, Nagaeva E, Öhman T, Róg T, Kankuri E, Vilar M, Varjosalo M, Korpi ER, Permi P, Mineev KS, Saarma M, Vattulainen I, Casarotto PC, Castrén E (2023). Psychedelics promote plasticity by directly binding to BDNF receptor TrkB. *Nat Neurosci* 26 (6), 1032–1041, [10.1038/s41593-023-01316-5](https://doi.org/10.1038/s41593-023-01316-5)
5. Bogdanova YA, Zaitseva ER, Smirnov AY, Baleeva NS, Gavrikov AS, Myasnyanko IN, **Goncharuk SA**, Kot EF, Mineev KS, Mishin AS, Baranov MS (2023). NanoLuc Luciferase as a Fluorogen-Activating Protein for GFP Chromophore Based Fluorogens. *Int J Mol Sci* 24 (9), 7958, [10.3390/ijms24097958](https://doi.org/10.3390/ijms24097958)
6. Kornilov FD, Slonimskiy YB, Lunegova DA, Egorkin NA, Savitskaya AG, Kleymenov SY, Maksimov EG, **Goncharuk SA**, Mineev KS, Sluchanko NN (2023). Structural basis for the ligand promiscuity of the neofunctionalized, carotenoid-binding fasciclin domain protein AstaP. *Commun Biol* 6 (1), 471, [10.1038/s42003-023-04832-z](https://doi.org/10.1038/s42003-023-04832-z)
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 31. Mineev KS, **Goncharuk SA**, Kuzmichev PK, Vilar M, Arseniev AS (2015). NMR Dynamics of Transmembrane and Intracellular Domains of p75NTR in Lipid-Protein Nanodiscs. *Biophys J* 109 (4), 772–782, [10.1016/j.bpj.2015.07.009](https://doi.org/10.1016/j.bpj.2015.07.009)
 32. Mineev KS, **Goncharuk SA**, Arseniev AS (2014). Toll-like receptor 3 transmembrane domain is able to perform various homotypic interactions: An NMR structural study. *FEBS Lett* 588 (21), 3802–3807, [10.1016/j.febslet.2014.08.031](https://doi.org/10.1016/j.febslet.2014.08.031)
 33. Mineev KS, Lesovoy DM, Usmanova DR, **Goncharuk SA**, Shulepko MA, Lyukmanova EN, Kirpichnikov MP, Bocharov EV, Arseniev AS (2014). NMR-based approach to measure the free energy of transmembrane helix-helix interactions. *BIOCHIM BIOPHYS ACTA* 1838 (1), 164–172, [10.1016/j.bbamem.2013.08.021](https://doi.org/10.1016/j.bbamem.2013.08.021)
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 35. Goncharuk MV, Schulga AA, Ermolyuk YS, Tkach EN, **Goncharuk SA**, Pustovalova YE, Mineev KS, Bocharov EV, Maslennikov IV, Arseniev AS, Kirpichnikov MP (2011). Bacterial synthesis, purification, and solubilization of transmembrane segments of ErbB family receptors. *Mol Biol* 45 (5), 823–832, [10.1134/S0026893311040066](https://doi.org/10.1134/S0026893311040066)
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